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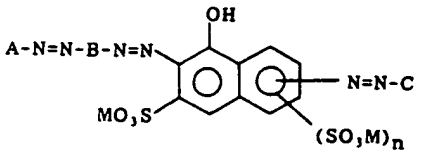
MITSUBISHI KASEI CORP *J0 3167-270-A
28.11.89-JP-308396 *(19.07.91)* C09d-11

Ink with rapid drying, high density, sharp image and storage stability - contains aq. medium, naphthol (di)sulphonate trisazo dye, and one of polyvinyl alcohol, hydroxyethyl cellulose and/or ethanolamine

C91-111394

An ink comprises an aq. medium(s), a cpd. of formula (I) and at least one of polyvinyl alcohol with a polymsn. degree of 200-1000 and a saponification degree of 80-90%, hydroxyethyl cellulose and/or mono-, di- or triethanolamine acetic acid salts:

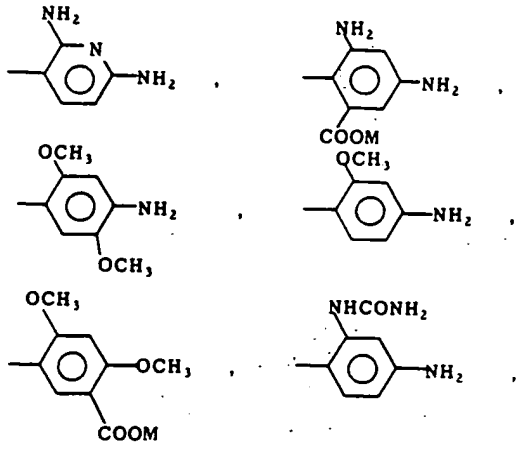


(I)

A and B = opt. substd. phenyl or naphthyl;

E(10-B3B, 10-C4J, 21-B7) G(2-A4A, 2-A4B)

C =



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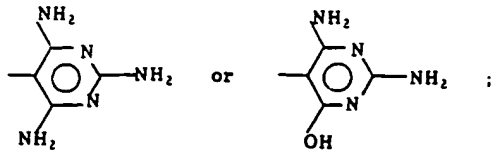


M = alkali metal, ammonium or organic amine; and
n = 0 or 1.

USE/ADVANTAGES

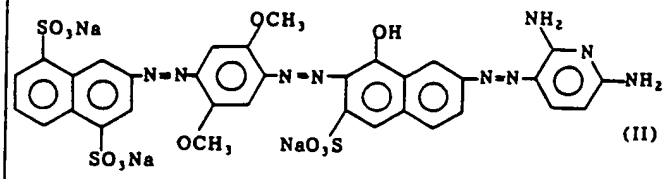
The invention provides inks with rapid drying, excellent printing quality, sharp contour, high density, signal responsibility, droplets forming, jetting and storage stability and long continuous recording properties without bleeding even printed on plain paper for ink jet recording and writing instruments, giving printed images with light, weather and water resistance.

PREFERRED COMPOSITION

The contents of a cpd. of formula (I) and the polyvinyl alcohol, hydroxyethyl cellulose and/or the mono-, di- and/or triethanolamines in the ink are 0.2-12 and 0.2-2, 0.1-1 and/or 2-7 wt.%.

EXAMPLE

A mixt. of 3 wt.% of a cpd. of formula (II), 20 wt.% diethylene glycol as an aq. medium, 1.5 wt.% polyvinyl alcohol with a polymsn. degree of 800-900 and a saponification degree of 85% and 75.5 wt.% water is mixed well to dissolve and filtered with a 'Teflon filter' (RTM) with a bore dia. of 1 μm under pressure and the filtrate is deaerated to give an ink.



(II)

(5ppW169CGDwgNo0/0).

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